

6. THE CLAIMS

It is claimed:

1. A video projector comprising:

a) a network adapter;

5 b) a microprocessor physically and electrically coupled to the network adapter;

c) a graphics adapter physically and electrically coupled to the microprocessor;

d) a light valve physically and electrically coupled to the graphics adapter; and

e) a light source physically coupled to the light valve;

10 wherein the video projector is operable to receive video data in digital form from the network adapter and wherein the video projector is operable to transfer the video data to the microprocessor, the graphics adapter, and the light valve in digital form.

2. The video projector of claim 1, wherein the power supply contains an input for receiving AC current and an output for outputting DC current.

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3. The video projector of claim 1, wherein the network adapter includes a port for receiving and sending data packets.

4. The video projector of claim 1, wherein the network adapter includes a port for
20 receiving and sending Ethernet data packets.

5. The video projector of claim 1, wherein the network adapter is operable to receive and send data packets that are formatted in accordance with the SUN RAY protocol.

6. The video projector of claim 1, wherein the microprocessor contains circuitry that is operable to receive and process a SET command, a BITMAP command, a FILL command, a COPY command, and a CSCS command from the network adapter.

7. The video projector of claim 1, wherein the video projector also includes an input device and wherein the microprocessor contains circuitry that is operable to receive data from the input device and, based upon the data, send a video modification command to the network adapter.

8. The video projector of claim 1, wherein the light valve is a liquid crystal light valve.

9. The video projector of claim 1, wherein the light valve contains deformable mirrors.

10. A video projector comprising:

a) a power supply;

b) a network adapter physically and electrically coupled to the power supply;

c) a microprocessor physically and electrically coupled to the power supply and the network adapter;

d) a graphics adapter physically and electrically coupled to the power supply and the microprocessor;

e) a light valve physically and electrically coupled to the graphics adapter; and

f) a light source physically coupled to the light valve;

wherein the power supply is operable to supply power to the network adaptor, the microprocessor, the graphics adapter and the light valve.

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11. The video projector of claim 10, wherein the power supply contains an input for receiving AC current and an output for outputting DC current.

12. The video projector of claim 10, wherein the network adapter includes a port for
10 receiving and sending data packets.

13. The video projector of claim 10, wherein the network adapter includes a port for receiving and sending Ethernet data packets.

14. The video projector of claim 10, wherein the network adapter is operable to receive
15 and send data packets that are formatted in accordance with the SUN RAY protocol.

15. The video projector of claim 10, wherein the microprocessor contains circuitry that is
operable to receive and process a SET command, a BITMAP command, a FILL
20 command, a COPY command, and a CSCS command from the network adapter.

16. The video projector of claim 10, wherein video projector also includes an input device and wherein the microprocessor contains circuitry that is operable to receive data

from the input device and, based upon the data, send a video modification command to the network adapter.

17. The video projector of claim 10, wherein the light valve is a liquid crystal light valve.

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18. The video projector of claim 10, wherein the light valve contains deformable mirrors.

19. A method of projecting a video frame on a video projector, the method comprising:

a) inputting data into the video projector;

10 b) based at least in part upon the data, sending a video modification command from the video projector to a server;

c) based at least in part upon the video modification command, generating a video frame;

15 d) sending at least a portion of the video frame from the server to the video projector; and

e) projecting at least a portion of the video frame.

20. The method of claim 19, wherein inputting the data includes the act of inputting the data into a keyboard.

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21. The method of claim 20, wherein the act of inputting data into a keyboard includes sending key coordinate information from the keyboard to the microprocessor.

22. The method of claim 20, wherein the act of inputting data into a keyboard includes sending ASCII codes from a keyboard controller to the microprocessor.

23. The method of claim 19, wherein inputting the data includes the act of inputting data
5 via a mouse.

24. The method of claim 19, wherein the act of inputting the data includes sending serial data.

10 25. The method of claim 24, wherein the act of inputting serial data includes sending serial data through a wire that is connected to the video projector.

26. The method of claim 19, wherein the act of inputting the data includes sending serial infrared (IR) data.

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27. The method of claim 26, wherein the act of sending serial infrared (IR) data includes sending infrared (IR) data from a wireless mouse.

28. The method of claim 26, wherein the act of sending serial infrared (IR) data includes
20 sending infrared (IR) data from a wireless keyboard.

29. The method of claim 19, wherein the act of inputting the data includes sending serial radio frequency (RF) data.

30. The method of claim 29, wherein the act of sending serial radio frequency (RF) data
5 includes sending radio frequency (RF) data from a wireless mouse.

31. The method of claim 29, wherein the act of sending serial radio frequency (RF) data includes sending radio frequency (RF) data from a wireless keyboard.

10 32. The method of claim 19, wherein the act of inputting the data includes inputting the data into a Personal Digital Assistant.

33. The method of claim 19, wherein the act of inputting the data includes inputting the data into a touchscreen that is coupled to the video projector.

15 34. The method of claim 33, wherein the act of inputting the data into a touchscreen includes designating portions of the touchscreen that correspond to portions of the frame to be projected and inputting data that represents the location of at least one of those portions.

20 35. The method of claim 19, wherein the act of sending the command to the server includes sending at least one data packet over a network.

36. The method of claim 19, wherein the act of sending the command to the server includes sending at least one Ethernet data packet over a network.

37. The method of claim 19, wherein the act of sending the command to the server
5 includes sending at least one SUN RAY protocol data packet over a network.

38. The method of claim 19, wherein the act of generating the video frame includes generating a virtual video frame on a server.

10 39. The method of claim 19, wherein the act of generating the video frame includes generating an intermediate video frame and then, based upon the intermediate video frame, generating the video frame.

40. The method of claim 19, wherein the act of generating the video frame includes
15 generating an intermediate video frame, and then modifying the aspect ratio of the intermediate video frame to generate the video frame.

41. The method of claim 19, wherein the act of generating the video frame includes generating an intermediate video frame, and then modifying the size of the intermediate
20 video frame to generate the video frame.

42. The method of claim 19, wherein the act of generating the video frame includes generating an intermediate video frame, and then modifying the brightness of the

intermediate video frame to generate the video frame.

43. The method of claim 19, wherein the act of generating the video frame includes generating an intermediate video frame, and then modifying the contrast of the

5 intermediate video frame to generate the video frame.

44. The method of claim 19, wherein the act of generating the video frame includes generating an intermediate video frame, and then modifying the location of at least one pixel in the intermediate video frame to generate the video frame.

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45. A method of modifying a virtual frame buffer on a server, the method comprising:

- a) receiving a data packet from a video projector;
 - b) extracting a video modification command from the data packet; and
 - c) based at least in part upon the modification command, modifying the virtual
- 15 frame buffer.

46. The method of modifying the virtual frame buffer of claim 45, further comprising:

- d) sending at least a portion of the virtual frame buffer to the video projector.

20 47. The method of modifying the virtual frame buffer of claim 45, wherein the act of modifying the virtual frame buffer includes modifying the color of at least one pixel in the virtual frame buffer.